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**Summary**

The invention pertains to patch-like chip systems for the thermodynamic control of topical dermal and transdermal systems, especially for improving the efficiency and safety of dermal and transdermal therapies and diagnoses. From an information technological standpoint, the systems represent complex technical devices that, in comparison to conventional passive systems, represent controlled and intelligent systems as a result of programmable and also individual control. Their incorporation into passive dermal or transdermal therapeutic systems requires no technical incursions into the existing structure of such systems. The patch-like chip systems also open up new usage possibilities in the sector of non-invasive and micro-invasive dermal and transdermal diagnosis.